■ SU-320 & SU-3280 ■

User's Manual

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Chapter 1 Products Overview

SU-3280/320 is high speed programming for design engineering and small production. It supports PC-based and Stand-along programming mode which through LCD and keypad download the file to the inside 3.2GB memory. Moreover, SU-3280/320 adopts modular design. If with the universal DIP module, you can just use general type adapter on the market for different package.

Chapter 2 Safety Information

All of operation, maintenance and service must adhere to the follow safety notes and precautions. We shall not assume any responsibility for any unexpected results arising from misuse.

When wind blows on the All of operation, maintenance and service must adhere to the follow safety notes and precautions. We shall not assume any responsibility for any unexpected results arising from misuse. vanes of generator, generator creates electricity. Please see the form ula below.

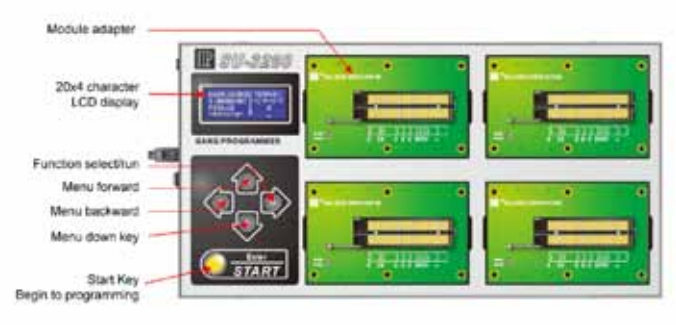
1. Please turn off the power when change the socket module. Be careful to remove the original socket module. Must pay attention to the direction of insertion. Moreover, check the pins of connectors situation. Everything is OK, then turn on the power again.
2. Socket module is consumable. The Insertion IC times, delicate operation, and IC surface cleanliness all affect the quantity of contact between the socket and DUT IC and programming quantity. When the defect rate increased significantly, we need to consider whether you replace the socket module.
3. When programming, the programer will provide voltage, if IC misplace or select wrong IC part no, will damage IC likely.
4. For OTP (one time programming) IC, because can not program again, please must careful operation.
5. Please pay attention to the master file version and parameter setting and programming procedure
6. For each new production order, must do on-board test to avoid misuse for the master file.
7. During the mass production, must random inspect IC, included programming file, parameter setting, security setting, and certain block setting.
8. Please use trained person to operation. Do not use no-experience person to operation.
9. Under the warranty, please do not repair or maintain except we agree.

10. If have problem, pleas stop programming at once.

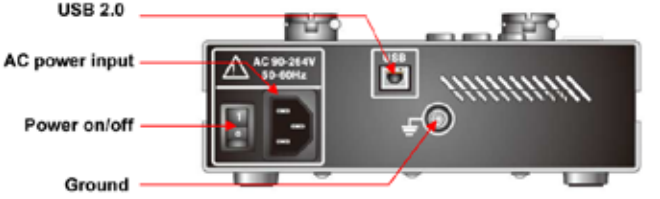
11. We will disclaim any responsibility for any loss or damage because of the above misuse.

Chapter 3 Appearance Description

3-1 SU-3280 Front panelr



3-2 SU-3280 Side Panel

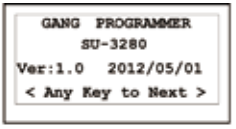


3-3 SU-320 Front panelr

3-4 SU-320 Side Panel

Chapter 4 Stand-alone Operation

4-1 Turn on Page



This page will keep 1-2s, then enter 'System model selection'. You can press any key to directly enter 'System model selection'

Line 1: GANG PROGRAMMER—Product description.

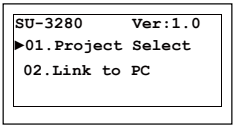
Line 2: Product model, SU-3280-- 4 socket modules, support IC up to 16.

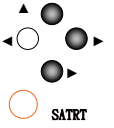
SU-320-- 1 socket module, support IC up to 4.

Line 3: Show the system version and publish date.

Line 4: Press any key to system mode selection page.

4-2 System Mode Selection Page





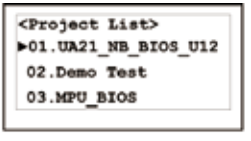
[▲]/[▼] Up/down
[▶] Select current item

Line 1: Model name and Version.

Line 2: Execute Project select function

Line 3: Via USB to PC, execute remote function.

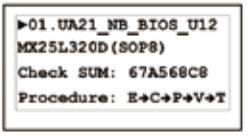
4-3 Project List

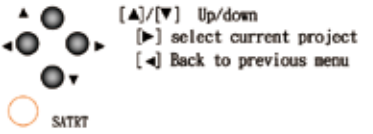


[▲]/[▼] Up/down menu
[▶] Select current project
[◀] Back to the previous menu

You can save up to 20 project File on SU-3280/320.

4-4 Project Information





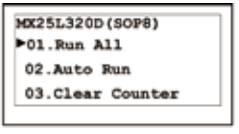
Line 1: Project name within 16 character. You can save up to 20 project files on the menu withthe total limit 2GB.

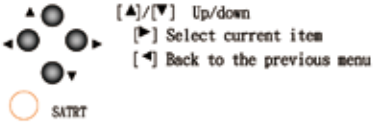
Line 2: Part no. 20 characters at most.

Line 3: The master file check sum, 8-digit HEX.

Line 4: Programming procedure, Erase/Blank Check/Program/Verify/Protect

4-5 Project Execution & Option





Line 1: Part no.

Line 2: 01. Run All - Execute programming procedure. Need to press Start button every time.

Line 3: 02. Auto Run – Execute auto run. Just press Start button once, after that, once new IC insertion, will start to auto run.

Line 4: Clear counter for the pass quantity.

Line 5: Set the sensitivity of IC insertion for 'Auto Run' function

4-6 IC Processing

Line 1: IC part no.

Line 2: Check sum, programming procedure.

Line 3: PASS COUNTER, T9~T12 status, T13~T16 status

Line 4: Working Status, T1~T4 status, T5~8 status

4-7 IC Status on Socket

T1~T16(or T1~T4) Status symbol:

E → C → P → V → T: IC process, Erase/Blank Check/Program/Verify/ Protect

ˇ－″ Socket Enable

ˇ ″ Socket Disable

ˇ√″ Under Auto Run, new IC place properly

ˇ?″ Under Auto Run, new IC pin scan FAIL

ˇO″ PASS, IC still on the socket.

ˇo″ PASS, IC taken off

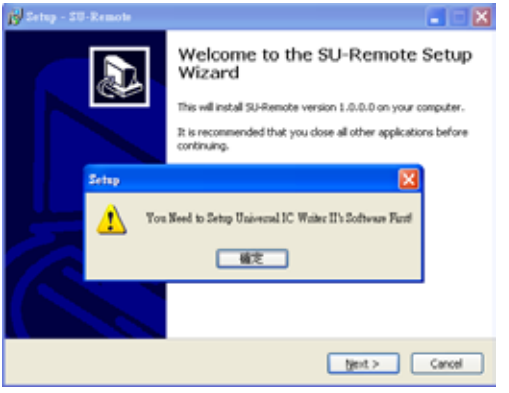
ˇX″ Process fail, IC still on the socket.

ˇx″ Process fail, IC taken off

Chapter 5 PC Software

5-1 Installation

Please make sure the Universal IC Writer II and DataBase have been installed.


Setup - SU-Remote
Welcome to the SU-Remote Setup Wizard
This will install SU-Remote version 1.0.0.0 on your computer.
It is recommended that you close all other applications before continuing.
Setup
You Need to Setup Universal IC Writer II's Software First!
確定
Next >
Cancel

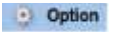
When instal SU-320 USB drivers, will need to install 2 times. When install SU-3280, will need to install 5 times. The USB drivers will be placed on the USBDrv automatically. The image as below. If for SU-320, will only show one Universal IC Writer II.

5-2 Software Interface

5-2-1 Main Page

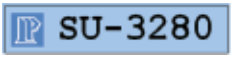
Software name and version

Project icon



Option icon

Current project name



Current model name

Project file information

Counter for record PARR, FAIL and Total quantity.

Return to 0

Execute programming procedure, STOP or START.

Execute Run All or Auto Run.

No click- After place ICs well, need to press the button for each time programming.Click- No need to press the button each time.

Stop the Auto Run procedure. The current procedure will complete and stop.

Log : Show Clear the current execute status and result.

Save Clear the log file

Save the log file

5-2-2 IC Status on Socket

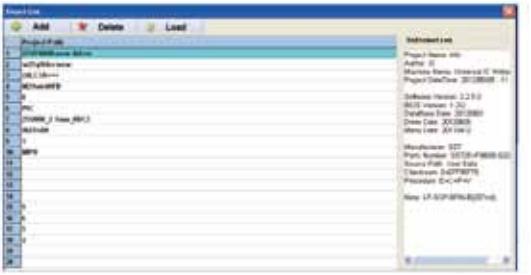
Show each socket IC status. SU-3280 has 4 module adapters. Each module adapters process 4 devices at the same time.

1. UI detect programmer ready status. 2. When Auto Run, place new IC status.	Under programming.	Run All programming successful	Run All programming Fail.

Auto run programming successful. And inform user to remove IC. 	Auto Run programming fail. And inform user to remove IC. 	Programming PASS and user can put next IC. 	Programming FAIL and user can put next IC.
After Auto Run programming finished, user place IC but without programming and remove IC. It will prompt to put IC. The green dotted line means the last time programming pass result, and user place IC but without programming and remove IC. 	After Auto Run programming finished, user place IC but without programming and remove IC. It will prompt to put IC. The red dotted line means the last time programming fail result, and user place IC but without programming and remove IC. 		

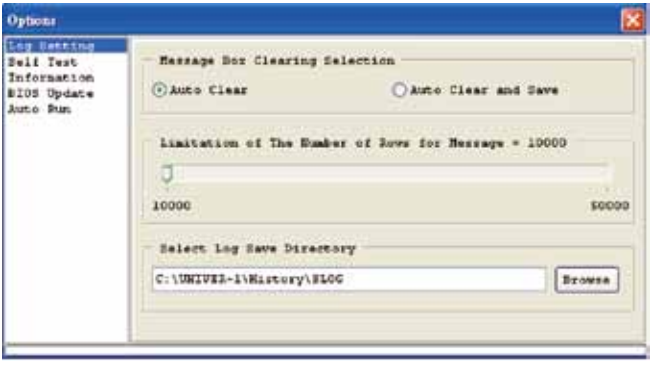
5-2-3 Project Manager Page

You can do add, delete and load file on the page. The maximum projects are up to 20. The highlight is the current programming project.

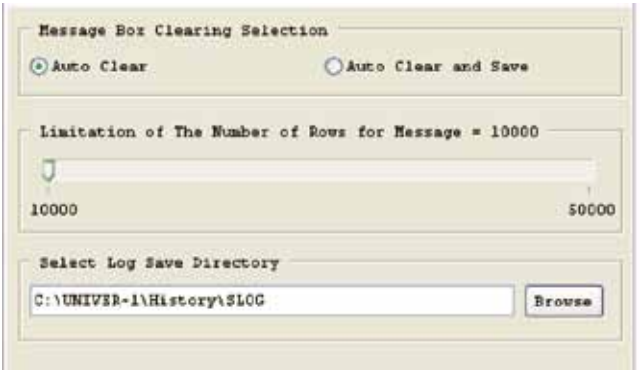


Add	Add new project file on the programmer.
Delete	Delete the project file on the programmer.
Load	Load the programming project file.

5-2-4 Options Setting Page



[Options->Log Setting]



[Message Box Clearing Selection] :

When [log] line exceed the setting range.

[Auto Clear]: clear the log if exceed the range.

[Auto Clear and Save]: Save and clear the log if exceed the range.

[Limitation of The Number of Rows for Message] :

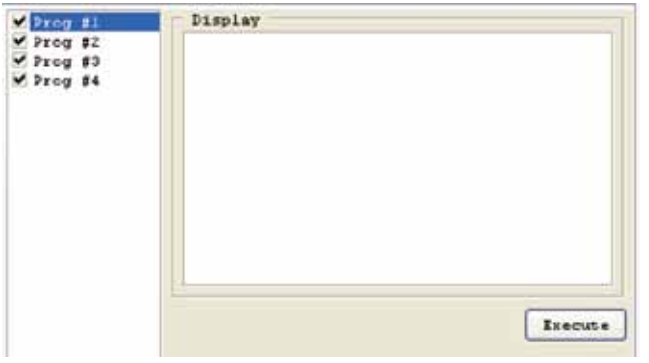
Setting the range if the log exceed, then clear or save.

[Select Log Save Directory] :

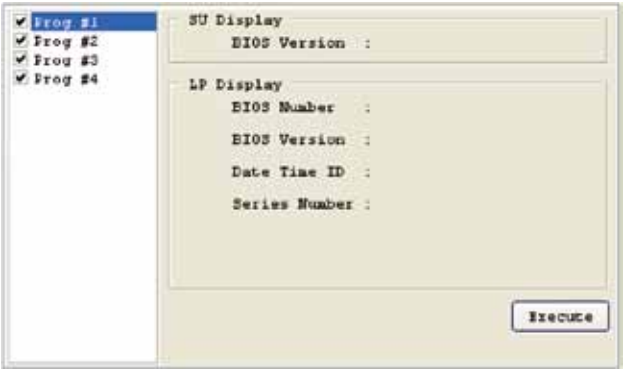
If you set the auto-save log function, the log file will save in this file. If no, the default is 'History\MLOG'.

[Options->SelfTest]

You can click site for self-test or simple LED function. You can see the result on the Main log or display.



[Options->Information]

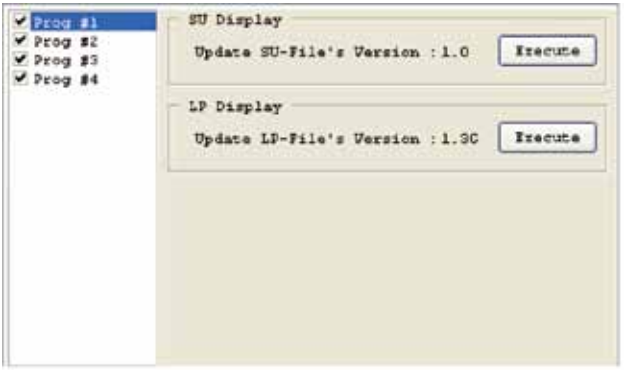


You can read the programmer BIOS and serial no. on the page. There two BIOS on SU-3280/320.

[SU BIOS] Main system BIOS, the human-machine interface.

[LP BIOS] Programming BIOS

[Options->BIOS Update]



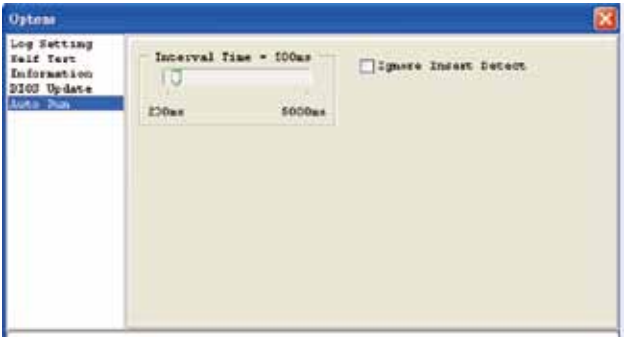
This is the function of BIOS update, [Display] shows the BIOS version which is came with the DataBase.

When pressing the Execute, it will update the BIOS to this device.

PS: When you update the BIOS, Led will flash a while. After finishing the update, the device will reboot automatically.

There's a certain risk for updating. So, do not turn off the power when updating. Otherwise, the devise would not reboot.

[Options->Auto Run]



[Interval Time] : Set the interval time for Auto Run checking.

[Ignore Insert Detect] : Whether to ignore the Insert Detect result for IC processing.

[Options->SDCard]

[Quick Format] Clear all data on the SDCard

[Backup] Backup the project files (*.lpprj) on the SD card

[Recovery] Restore the project files (*.lpprj) back to the SD card

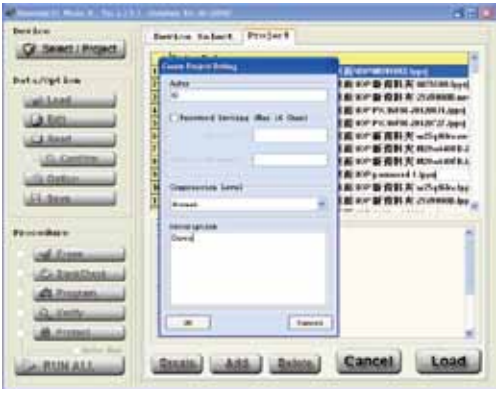
PS: Please Do not disconnect the programmer(s) during the process!

Chapter 6 Tutorial

6-1 PC Software Operation

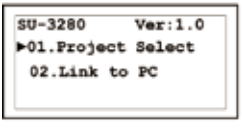
<Step1> To Generate project files by single-operation software.

After generate the project file, close the single-operation software. Single-operation or SU software can be only allowed one type to run at the same time. If both of them are open at the same time, it will lead to disorder and not work.



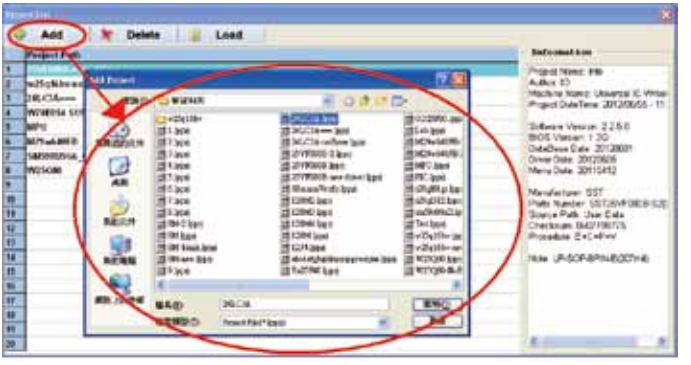
<Step 2> Set the programmer to USB, link to PC.

Connect USB cable between PC and the programmer.

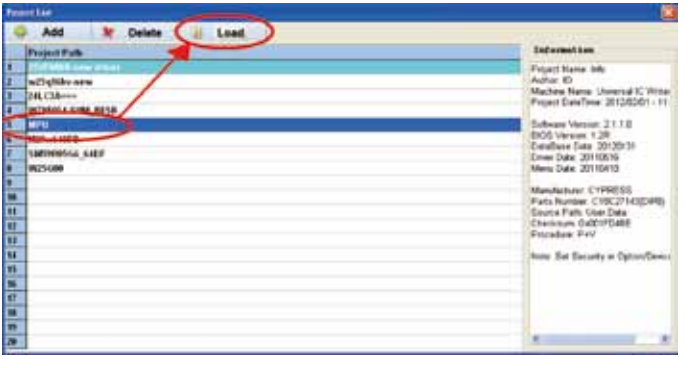


[▼] Move cursor to 02.Link to PC
[▶] select the current.

<Step3> Open SU software to load the project file



To load the project file, and the loaded file is not accepted to modify any more. If user wants to modify it, user needs use single-operation software. If the project file on the file, select it and click Load.



<Step4> Fine-tuning

To perform the Auto Run programming. User can set it following the path:

[Option] → [Auto Run].

<Step5> Start to program

To implement the [START] will begin to do programming. **I**f you want to implement Auto Run mode, remember to click Auto Run and implement START. If you would like to finish Auto Run, just implement STOP.

PS. At this moment, the programming driver is using the project file not on the DataBase.

<Step6> Programming results

Can view programming status and results of each Site on [Site Status]. Or check all of the PASS / FAIL/Total number in the counter.

PS. When you are using 4 IC socket module, 4 ICs must placed well and start to program.

6-2 Stand-along Operation

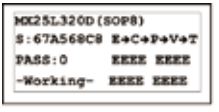
Step 1. Repeat 5-1, step 1 to step 3. Close SU Remote software. The programmer will be return to stand-along mode.

Step 2. Select <Auto Run> or <Run All> for stand-along programming.

Step 3. Place devices on each socket carefully and press <START> to process.

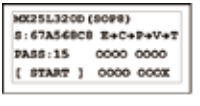
[◄] back to 'Project Select' menu

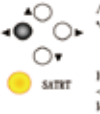
Press [START] to Auto Run.



Execute ERASE for 4 socket module, 16pcs.

All of devices are complete. You can see the PASS/FAIL status on the LED on the socket module or on T1~T16 symbol on the LCD.

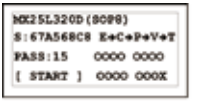


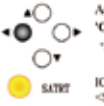


Auto Rum complete.
'O' = PASS, IC on the Socket
'X' = FAIL, IC on the Socket

ICs still on the socket, can not press <START>. Please remove ICs before you leave.

Remove ICs. The symbol of T1~T16 will show the status in time.





Auto Rum complete.
'O' = PASS, IC on the Socket
'X' = FAIL, IC on the Socket

ICs still on the socket, can not press <START>. Please remove ICs before you leave.

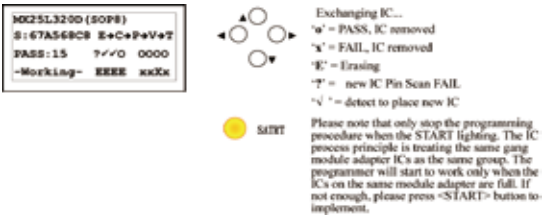
There are 2 ways you can select. One is that to program all of the ICs after all of the ICs exchanged. Another is asynchronous and concurrent by different socket module.

MX25L320D(SOP8)
S:67A568C8 E+C+P+V+T
PASS:15 oo00 0000
-Working- EEEE oxox
START
Exchanging IC...
'o' = PASS, IC removed
'x' = FAIL, IC removed
'E' = Erasing
T1~T4 start implementing. Remove T5~T8 IC from the socket. Press <START>, will start implementing T5~T8.

Step 4. Stop the programing procedure. You can press [◄] to return 'Project Execution & Option' menu.

Auto Run mode:

Please press <START> button when the first time operation. After that, when you place IC, the programmer will start auto run procedure.


MX25L320D(SOP8)
S:67A568C8 E+C+P+V+T
PASS:15 ?√√O 0000
-Working- EEEE xxXx
START
Exchanging IC...
'o' = PASS, IC removed
'x' = FAIL, IC removed
'E' = Erasing
'?' = new IC Pin Scan FAIL
'√' = detect to place new IC
Please note that only stop the programming procedure when the START lighting. The IC process principle is treating the same gang module adapter ICs as the same group. The programmer will start to work only when the ICs on the same module adapter are full. If not enough, please press <START> button to implement.

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Leaptronix®